Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco Mesaverde Formation Mesaverde County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed January 7, 1957

Operator Pacific Northwest Pipeline Lease San Juan Unit 29-6 Well No. 2-14

Unit M Sec. 14 Twp. 29 Rge. 6 Pay Zone: From 5393 To 6270

Casing: OD 7" WT. 23 Set At 5397 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 6191

Produced Through: Casing ____ Tubing X Gas Gravity: Measured ____ Estimated .650

Date of Flow Test: From 11-17-56 To 11-25-56* Date S.I.P. Measured 3-27-56

Meter Run Size ____ Orifice Size ____ Type Chart ____ Type Taps ____

OBSERVED DATA

Flowing casing pressure (Dwt)	psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt)	psig + 12 =		psia	(b)
Flowing meter pressure (Dwt)	psig + 12 =		psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading	psig + 12 =		psia	(d)
Square root chart reading (____)^2 x spring constant	=		psia	(d)
Meter error (c) - (d) or (d) - (c) ±	=		psi	(e)
Friction loss, Flowing column to meter:				
(b) - (c) Flow through tubing: (a) - (c) Flow through casing	=		psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading	psig + 12 =		psia	(g)
Square root chart average reading (____)^2 x sp. const.	=	517	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=		psia	(h)
P_t = (h) + (f)	=	517	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =	984	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 967 972	psig + 12 =	979	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	979	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	490	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{494} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{*} = \_\_\_ \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 494 \left[\frac{P_c^2 - P_d^2 = 718341}{P_c^2 - P_w^2 = 685672} \right]^n (1.0476)^{.75} = 1.0355 = 512 \text{ MCF/da.}$$

SUMMARY

P_c =	979 psia	Company	Pacific Northwest Pipeline Corporation
Q =	494 Mcf/day	By	Donald C. Adams
P_w =	522 psia	Title	Well Test Engineer
P_d =	490 psia	Witnessed by	
D =	512 Mcf/day	Company	

* This is date of completion test.

* Meter error correction factor

RECEIVED
JAN 10 1957
OIL CON. COM.
DIST. 3

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-S}) / R^2$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w^2
4024	.254	21,576,	5480	267289	272769	522

3-N.M.O.C.C.-Aztec
2-Phillips Petroleum - Wayne Smith
L. G. Truby
1-File

OK